

Stevens
1901

1426 K&T

ss.
over
e
Mill

Covered
stream

diag
m.

St. Lawrence River
New York

Of fossils sent by mail to
Prof. Foerste
Grand Ave.
Dayton, Ohio.

alternating.

L. V. Sevier. Nashville Tenn.
State Ag. Dept. Tennessee Museum, Harris,
and Stone Creek and would like to
go along.

June - 1901.

Savannah - Horse Creek sections.

1. Watson's Mill. about 3 mi. from Savannah, about 6 mi. above mouth of Horse Creek. = Paulk's Mill. On Savannah & Oglethorpe road.

6 ft. clay layers with some limestone above in the clay. Covered by soil & top of this clayey section not seen.

5 1/2 ft. good bluish quarry stone, like Limestone in appearance. Contains:

Dalmanites verrucosus, pygidia common, heads less common. *Maclurea ixoxus*, collected.

3 ft. clay blue above, red below with *Retzia*, *Pezomachella undulans*. collected.

15 in. red limestone, weathering readily.

6 ft. red clayey rock weathering to a clay. 6 ft. section ends at stream level.

A quarter of a mile down the creek, at a cave the following rocks are seen:
3 1/2 ft. rock, pure white, like quarried stone at Paulk's Mill.

1 ft. shaly stuff.

34 ft. red clayey, and hard limestone alternating.

white rock.

red rock section.

2. Turkey creek empties into Horse creek $\frac{1}{4}$ mi. above Watson's mill and shows upper part of section very poorly near mouth.
3. Iron bridge across Horse creek, 4 mi. above Watson's Mill. About 25 ft. of rock, white, some of it quarried, belongs to bottom of Silurian section. Below the red rock series. Coffee sand rests directly on top.
4. Lick Ford, at mouth of Willoughby creek, 1 mi. above a bridge across Horse creek.

Ordinary Willoughby cement rock at Ford.

5. Eastward, up Willoughby creek as far as road past school house, the ordinary Ordovician cement rock lines the creek. In places it is 15 feet high. Covered by Coffee sand.
6. Welch's Mill. = Maddox mill = Old Graham Mill. About 2 mi. above Willoughby creek. 5 mi. SE of Savannah. Coffee sand with silicified tree trunks at base; on 23 ft. white limestone above, blue below. 2-7 ft of a rock which may be Clinton. It is hard and flinty. 15 ft. Ordovician cement rock like

the cement rock at Willoughby and Clinton.

The white rock first mentioned is cracked at different levels. It seems to belong below the red clayey rocks of other sections according to this section. I visited this section with T. B. Kern of Savannah.

7. Dodd's Mill. about $1\frac{1}{4}$ mi. above Welch's Mill. No Ordovician seen. Coffee sand on 38 ft. of white limestone like that at base of Silurian at Welch's Mill.

See page 233

8. Sulphur Spring, on Ross + Arnold's place, about a mile above Dodd's Mill, a little N. of the Florence road.

Coffee sand above.

- A = 4 in limestone
 3 ft. white clay with fossils in thin limestone slivers.
 35 ft. red rock clayey.
 5 ft. white rock like rock at Dodd's Mill. This completes section to creek level.

Above A, up branch at spring, is more white rock, at least 12 feet. There is an upper & a lower white section with red between.

9. Calybeate Spring, $\frac{1}{2}$ mi. above Sulphur Spring, on east side of Horse creek.

A short distance down the river from the spring are 15 ft. of white limestone, = top of Silurian. This is overlain by at least 60 ft. of Lower Helderberg, containing some round crinoidal bodies though their whole extent apparently. Small fossils (Lower Helderberg?) occur just above the Silurian limestone.

10. S.E. of Mr. Cab. Blount's House, 2 miles above Calybeate spring, along Horse creek. The top of the Lower Helderberg contains the large round crinoidal bodies. There is a trace of Black shale, not well exposed. And the Waverly is abundantly exposed.

Cerro Gordo - Saltillo.

11. Cave Spring, on road from Saltillo to Cerro Gordo, $\frac{1}{4}$ mi. E. of Cerro Gordo.

A little whitish clay, resting on 35 ft. red rock, clayey at least. 25 ft. white limestone below.

12. Cerro Gordo.

Brown sand and gravel (chiefly the latter) = coffee sand?

8 $\frac{1}{2}$ ft. very fossiliferous clay with limestone shivers.

5 $\frac{1}{2}$ ft. fossil. limest. very fossilif.

3 ft 9 in. clayey limest. " "

2 ft 4 in. more clay

4 in. limestone } Waverly is

3 $\frac{1}{2}$ ft. white clay } horizon.

fossiliferous

2 ft. massive indurated clay bed as at Rice Mill

26 ft. red rock, becoming more clayey at top, but turning to red and fairly solid more whitish limestone below.

32 $\frac{1}{2}$ feet white rock

10 feet not exposed on account of high water.

13. Saltillo

1 mile S. of town, on White's creek, at site of old mill, $\frac{1}{4}$ mi. west of river is abundant Ordovician co-

ment rock. like that at Clifton.
It slopes strongly eastward, and
at the river, there occurs plenty of
white limestone with a little
red intercalated at base, which
is probably partly Roemer's bed

at the Landing, a well 50 feet
deep struck plenty of Black slate,
and apparently some rotten
phosphate rock, depth unknown.

1 mi. N. of town at another old
mine site, only whitish limestone
like that along the river. ~~above~~ the
mouth of Miles creek, is seen.

R. S. Dargy, Saltillo, has his all
about Shannonville Blades.
J. S. Holland went along with
Dargy on Saltillo visit.

14-

At and below Landing. Clifton.

Back of
town
hotel.

Clifton and Glenbirk.

15-

Glenbirk.

above the
river

white cr. ls.
red ls.
blue ls.
grey ls.
brown ls.

solid
white
cr. ls.

solid
white
cr. ls.

B 1 1/2

Clifton

Clifton

2 ft. red
2 ft. clay
16 1/2 ft.
red sandy
16 1/2 ft.
15 1/2 ft.
solid red
12 1/2 ft.

18
12 1/2

62
15

2 ft. red
2 ft. clay
16 1/2 ft.
red sandy
16 1/2 ft.
15 1/2 ft.
solid red
12 1/2 ft.

18
12 1/2

62
15

21
24
more solid
shaly
soft red l.

36
40 1/2

At Clifton Landing, the Clinton
is underlain by 6 1/2 ft.
16 1/2 ft. of Cin. Group and
2.2 ft. of ~~conglomerate~~ c.

A Roemer's bed at Clifton.

Astylospongia praemorsa.
stellatum-sulcata
inciso-lobata
imbricat-articulata

Palaeonurus cratera

Astraeospongia meniscus

Favosites fava as figured by R.

Favosites ~~catlandica~~ catlandica, Fig. 11.

" discoides.

" fibrata

Heliodites interstincta.

Thecatergites hemisphaericus

Cyathophylloides Simonardi.

Pentastella anticostata.

Caryocrinus ornatiss

Platycrinus Tennesseensis

Dacryocrinus speciosus

Cystocrinus Tennesseensis

Orthis elegantula

fissiplica

biloba

Leptaena reambridalis

Spirifer oligoptycha.

Atrypa reticularis

marginalis

A cont.

Wilsonia Wilsoni.

Pentamerus galeatus young

Calceola Tennesseensis

Platystrophia Wayneensis

~~Wilsoni~~ Wayneensis

Sphaerexochus minor

Maeris barriensis

Also

Spirifer foggi. Pegram type

Spirifer simplex, very small
as at Bledsoe.

Spirifer becoming simple
towards margin.

Strophomena long hinge line,
small form, under arm.

Orthis, new species of Hall
from Tennessee.

Encrinurus

Alveolites large openings.

Heliodites subtrilobatus

Pachydictya same as at
Pegram.

Petraria Wayneensis.

Petraria Fanningiana.

Cyrtia arcata, not anchored

Sphaerobis

Callopora elegantula.

A. at Glenkirk, (not found
at Clifton)

Dalmanella caudata,
Atysia tumida
Laurencia crinoides *Tennesseensis*
Callopora elegantula
Thracia Swinhoeana
Rhynchonella Tennesseensis
Cladopora flexilis
Plasmopora.

B. Base of Laurel. Top of Ozgord
at Clifton.

Stephanocrinus Ozgordensis
Piezocrinus gemmiferus.
Super-top of *Stephanocrinus*.

C. Crinoidal bed in Ozgord, Clifton.
Lituites. Very common.
Hyolithes
Ilacrus common
Cyclonema "
Arturoceras very "
Platystrophia.

Piezocrinus & *Stephanocrinus*
are found within 2 ft. of Clinton
in the Ozgord.

Caryocrinus found within 2
ft. of top of Ozgord.

D. Clinton at Clifton.
Platystrophia bifurcata small
Artus elegantula
Atrypa marginalis
Atrypa Clintoni corrugate form.
Plectambonites sericea
Triplasia Artus
Cyclonema bilix
Ilacrus Daytonensis
Favosites favosa
Harpesites catenulatus
Included from Ard-
vician at base =

Rhynchonella capax
Artus subquadrata.

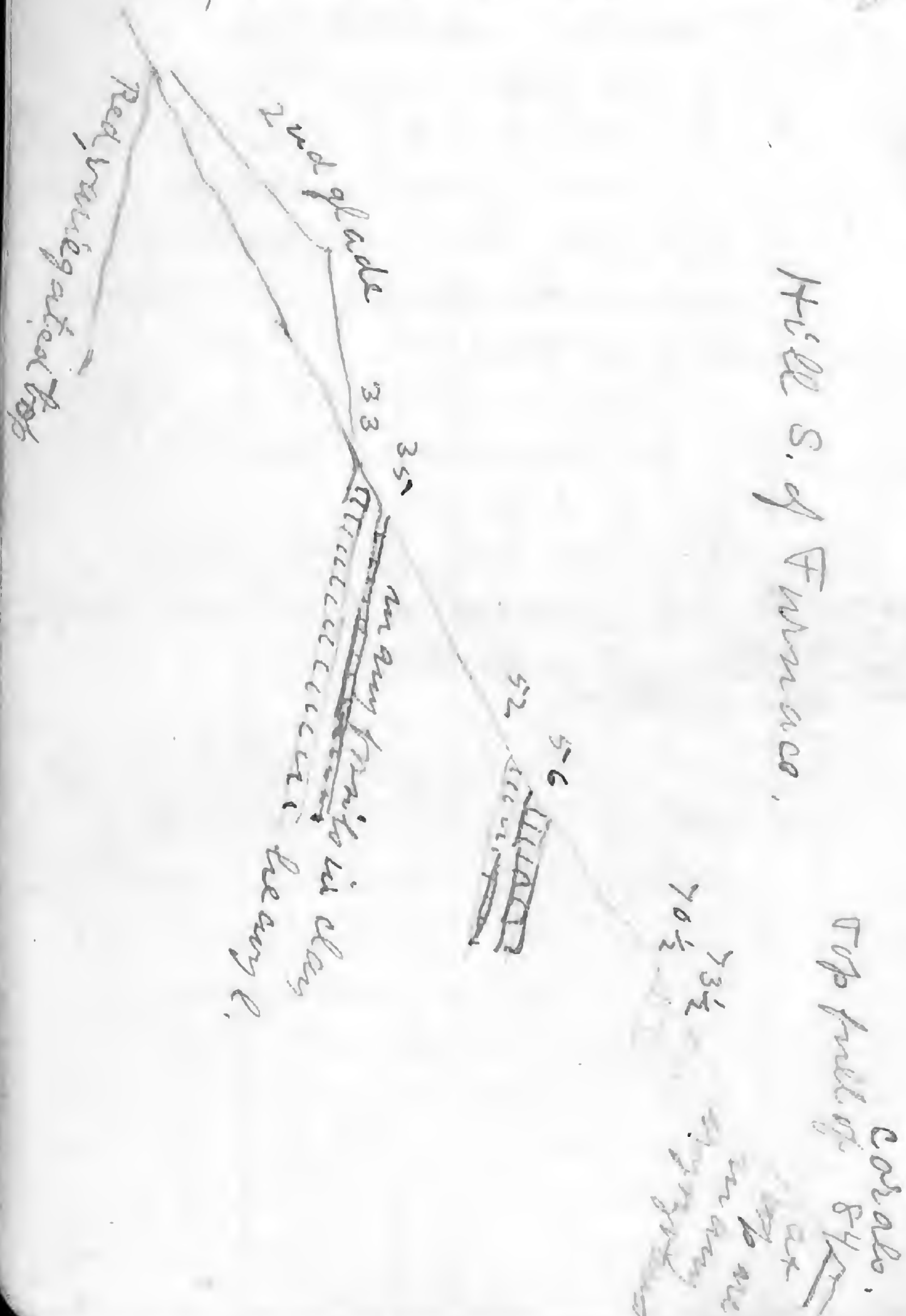
D. Clinton at Glenkirk.

Tinged with *Ilacrus Daytonensis*
salmon brown or more light
brown and whitish. *glabella*.

Ardvician just below
Clinton at Glenkirk.
Rhynchonella capax.

Brownport Furnace,

16. S. of Brownport Furnace,
amoyensis occurs in
 red series, 15 feet below base
 of Roemer's bed, at 2nd grade



17. On road from Vices' store
 to Furnace, the large round
 Favosites new species, occurs
 33 feet above the variegated
 red bed.

18. at Mound Blade along
 road from Vices' to Perry-
 ville, it is 50 1/2 feet from
 top of the red rock to the
 top of the very crinoidal
 layer with *Pentamerites*
Reinwardtii

19. at Mound Blade off the
 road, it is 63 feet from
 bottom of rock to very fr-
 uiferous bed, and 93 1/2
 feet to top of hill.

The Furnace at the Landing was
 erected in 1839-40. The Furnace
 at Brownport Furnace was
 put up in 1849. Therefore after
 Roemer's visit.

Mrs. Hattie Fisher Decaturville
 Mrs. Ellen Allen Decaturville
 Mrs. Anna K Mc Miller Between
 Decaturville & Buckner's Mill.
 at Elie Fisher's nr. S. of Sulphur Spgs.
 Brown all about Roemer's visit.

Perryville.

Photo. Mrs. Mary Young.
Perryville. Tenn.

Judge Head of Chicago.
Head of Double Sisters Island
to Shannsville. Or. B. B., in
west side of river.

20. Perry, NW. corner of town,
Sandstone at fence level.
1 1/2 ft. Thin limestone full of
bryozoa and other Lower
Helderberg fossils.
14 2/3 ft. Weathered to richly
fossiliferous clay.
2 ft. fine grained blue limest.
3 1/2 ft. At top is *Encalyptocrinus*
but flatter, also flat
Strophonella corrugata,
rest of section not recorded.
16 ft. 7 ft 3 in. Crinoidal zone.
6 in. Corallium layer
2 ft 10 in. Top of layer full of
Artus obblata?
Encalyptocrinus crassus at
top.
4 1/2 ft. Roemer's bed. Coarsely
crinoidal for 1 ft. at top.

Perryville + Linden.

21. Perryville. Quarry. NE of town.

Soft layers partly exposed,
11 1/2 ft. softer than rock below
base of fossils
8 1/2 ft. solid crinoidal rock
Astraeopora murex etc.

22. Linden, 1 mi. N. of
Mr. William H. Patton.

6 1/2 ft. Black Shale
1 ft. Sandstone.
19 1/2 { 6 1/2 ft. not exposed
7 2/3 ft. more shaly beds very fossiliferous
5 1/3 ft. solid limest. massive.
Roemer's bed. 17 1/2 ft.
Spring at house.

Near lower end of stream the top
of Roemer's bed is 52 ft above
the stream bed. and contains
Astraeopora murex at
top. Collected. Also *stellatim-*
sulcata.

Chas. Timmer. Crisp. Tenn.
wants Photo. of derrick.

23. East of William Birdwin's
house on hill side. Opposite
road leading from Short
creek into Long creek road.

Black Shale.

18 in. 2 Grandest trees

884. Romero's brd.

"*Conchidium ryzino*? within
10 feet of base of section.

24. Up Com Creek, 1 mi. above mouth of creek. Above John M. Bodwin's house. At spring on S. side of creek, at foot of bluff.

black shale

1/2 ft. dark blue carb. sandstone.

1/2. Black shale.

1 $\frac{3}{4}$ ft. 2 on det one.

72 ft. Roemer's bed.

25.

- 26) 1 mi. E. of Linden. Up Short
creek. N. m. road side.
1/4 mi. W. of J. S. J. ourney's house

Black shale

2/5 Sunday

11 ft. Lower Helderberg.

Rover's bed.

- 27) 1 1/4 mi. E. of Linden.
Up Short Creek. At forks
where Jack's Branch comes in
from SE and up that branch.
Near E. Duncan's house.
(tenant)

3 in. Blue sandy rock.

2 ft. Black Shale

2^o /k. I can do it one

18 ft. Rovers' bed.

18 1/2 ft. Abundant corals

Bottom of section at spring
on Short creek.

- 28) Webb's Mill. $1\frac{1}{2}$ mi. S. of Linden.
Rice Mill.
Nodular layer.
 $4\frac{1}{2}$ ft. Black shale.
2 ft sandstone.
 $5\frac{1}{4}$ ft Roanoke bed.
11 ft. reddish rock - variegated

28 Cont.

Astraspargia subvirens
is found 16 ft. above top of
red rock, above a 5 ft. in-
durated clay layer. Massive
looking but spalling off ir-
regularly.

Cumberland City.

29 - Along R.R. West of John
Broadus house, 3 mi. S. of
town. Just N. of crossing
of main county road
to Erin.

In ascending order, going
S. towards the crossing.

In a cut is a thick section
of the Clinton rock of Chipton =
Ordovician: badly decomposed
and mostly reduced to shaly
stuff here but better preserved
at one point along the R.R.
about 1/2 mi. from town.

22 ft. White limestone, Clin-
ton, like Dayton limestone.
Upper 12 ft with chert layers.
Lower 10 ft massive. Fa-
vorites favosus in massive
part.

14 ft. Soft red clayey rock =
As good, more whitish at base.
Thickness may be 19 feet
but there is probably a core
faulting here.

7 ft. Red li'nest. with *Stroph. cravri-*
rus *Esquidenis* + *Pisocrinus*
gemmiformis becoming less
red + clayey above.

2 ft. limestone, slightly crumpled
3 ft. reddish clay, may be thicker
if not faulted.

White + much crumpled rock
like some of the Roemer lime-
stones and some of Laurel
also.

The rock runs away road at
John Bradas in an E-W
direction.

Further S. is Wagon at Davis-
ville (?) overlain by Lower Sil-
lurberg fossils and still fur-
ther S. is Siliceous Group.

Black shale not exposed here.

30) East of angle of Public road
to Erin, E of John Bradas'
house.

Black shale is seen up a
gully on the N. side of the little
stream flowing westward
and passing just S of John
Bradas's house.

Lower Siliceous fossils, thin
section, as at RR cut.

169 ft. limestone. Astraspungia
meniscus near base. Very
flat Favosites favosus about
2/3 way up. Faulting may

have increased the section
here.

20 ft not exposed.

32 ft. clayey red rock, pretty
well exposed. ~~Massive~~

? Massive red limestone,
dense, and red, like some
below the red layers at
Clifton, but red instead of
light red. None not exposed
here.

31. Christopher Schmidt. At old
Furnace on SW edge of basin.
Black shale. also limestone
exposures. The latter contain
peculiar fossils. Faulting
in here.

32. Dr. W. B. Scott. On western
edge of basin. at about the
middle of its length. Here the
various sponges were found in
the regular Roemer beds. These
overly soft red clayey rocks
and hard massive limestone,
varying the John Bradas
section. Below the red mas-
sive rock, south of the house,
is the Orford with the Per-
sianus + Stephanoverius.

32 cont.

33. West of town, along the river,
Black shale is exposed.
The Lower Heidelberg shows
numerous fossils!
The massive red rock be-
low the red clayey section
is faulted up against
the Lower Heidelberg here.

Rushings Creek. 8 mi. S. from
Big Sandy Station. On Brick
House farm.

Bluff limestone, 15 ft. with
plants of fossils. (Lower Heidelberg?)

250 yds. E. of house on creek.

Road runs by a stable to the bluff.
Reported as above by a farmer. Not
seen by me.

Stop —

- * Lobelville. N. Perry Co. 4-5 stores.
Look up A. W. Dods on for board.
- * Beardstown, 7 mi. S. 3 stores,
Bill Edwards.
- * Farmers Valley, Good Bluff, John Wiley
- * Flat Woods, Dr. John Haggard.
- * Forty eight.

Tennessee River.

Waterloo. Hotel $\frac{1}{2}$ mi. from river.
Riverton Hotel $\frac{1}{2}$ mi. from river.
Eastport Mr. Walker. 1 mi. off fr. river.
Booker Woods on west side. The
Red Sulphur Springs Hotel is 3 mi.
off.

Pickwick. The
White Sulphur Springs hotel is
1 mi. from landing. Seven
coves Sept. 15.

Hamburg. Poorest place in the
world! Bad bug notes.

Pittsburg Landing. Store. Boarding
house. Mrs. Summers.

Crumps. Right up in the hills
from landing is dwelling house
Mr. Linder.

Savannah Hotel.

Coffee Landing. Good place.
Big store.

Digges on West side. Can stay.
Corry & Odo. Two stores. Mr. Waller
is best.

Mr. Martin. $\frac{1}{2}$ mi. beyond Bath
Springs. Near the 5 mi. post
turn to the left.

Linden. $\frac{1}{2}$ dollar ferry, if rig is used.
Telephone to Linden for rig and
state if you have trunk.

Perryville Good hotel.

Wells. Store. Can stay.

- Barnesport. No stopping place.
- + New Terra Store + 3 dwelling houses.
Legg. Dr. Strickland.
- Peters. Store. Sick. Duke N. Blackwell.
Bobs. W. side. Store. Can stay.

Bluffs for 2 mi. down river,
Wallace Bluff. Store. Can stay over-
night.

Castillo. Mrs. Clark \$2.00

Clifton. Squire Haggard. Visited by
Head and Harris.

Johnsonville to Birdsing Creek.

Mouth of Big Sandy. Good. Mr.
Buckingham.

Mrs. William, great collector of Tennessee
Niagara fossils lives at
Jacksonville Tennessee, about
20 mi. west of Springfield.

Ordovician exposures occur on
Horse, Indian, Hardin + Beechcreeks
xxx On upper part of Beech creek, not
more than 4 mi. from Waynes-
boro is a patch of it and others
are met with in the same
stream on going towards its
mouth.

Clifton 15 ft. calcareous shale.
23 ft. blue limestone.
: Rhynch. capax
: dentata
: Column. stellata
70 ft. Art. bed. smooth
flags and clay.

Variegated bed.

Quarries on Big Sandy, at local
dome. Southern Henry Co
Birdsey creek Benton Co

Lower Helderberg.

White Sulphur Spgs. S. Hardin Co.

Commencing at mouth of Big
Sandy upstream for 5 or
6 mi. in Henry Co.

S. Benton + in Decatur.

30 ft at Beardstown, or rather
3 mi. below it. betw. Black
Shale + Menis beds seen.
2 mi. above mouth of Buffalo.

- 839 Williams Mill, 5 mi. above mouth of Big Sandy, Henry Co. 50 feet. cherty beds with fossils: Crickany?
- 840 Tributary of Birdsong, S Benton Co. like last. = Crickany? also?
- 841 White Sulphur Spgs. ~~establishment~~ on upper Weld. chert with fossils. About 1 mi. from Spgs. on oppo- site side is bluff 2 mi. long, with Lmr. Weld. at base. Cherty beds = Crickany?
842. Buffalo River, Perry Co.
843. Nix
- 844 A B G out. Indian Creek, 14 mi. from Waynesboro, 22 ft. Sava- nah. Silicified fossils, 10 ft. Hill.
845. Craven's Mills a short distance below G anto Lm. Helder. 35. Menis- cus, top forms a ledge at Craven's Mills. 65 ft. of limestone with Meniscus. 20 ft Variegated, also well seen at Craven's.
- 846 2 1/2 mi. W. of G anto, bed, 25 ft, filled with corals.
847. Hardin Co. Col. Smith. 9 mi. from Savannah, on Waynesboro road, 20 ft bed. tecumary,
- 848 Bath Spgs. Secatur, 20 ft bed fossils. Meniscus below.

- 29 N of RR bridge N of Riverside, Tenn. At base of Laurel = 1 1/2 mi. N of Gallatin Creek. Holozytites, 4 in. long, species unknown. Pterocrinus gemmiformis, common, Art. p. 100. Large forms.
- 29a
- 8" Mottled with cherty layers. 11 ft + 8" sandstone, brown, ranges of fish remains throughout. Pteropodite nodules along the base, some of them 4 in. long.
- 8" siliceous, cherty stone, occupying portion of black shale sandstone. A new layer below.
- 8" Clay. l. badly weathered, crumbled to a clayey limestone mass.
- 50 Massive limestone, traces of red.
- 10 10" clay.
- 6" white limestone, soft, crumbling, with little silica.
- 10 2" covered, probably clay.
- 36 3" sandstone. Strongly bedded, some of the layers arenaceous at the very top. The upper half more massive. The lower half softer & weathering back.
- 40 Co. good? Bedded in rather thin courses, with a few thicker courses at the base. At the top is a thin white in conformity between this a bed above = 2 courses.

- 5° 9" Crossbedded Clinton, at present
very fossiliferous in places.
5° 9" Greenish Ordovician clay ac-
tually exposed.

Clinton at top with
Favosites favosus? flat with
crinoid stems 3 mm. across.
Hedysites columbiana
Glossopora ambigua type. (Lepidodermis type)

30. Ordovician W. of Harvards on road
to Trace creek, N of Buffalo river.

- 14° Clay
8° Well bedded clay limestone. No fossils
at least none common.
11° Fossiliferous weathered clay rock.
Fossils chiefly in upper half.

32 Mr. Ed. Walker — on Tucker Branch
road.
Waverly.

- 5° 3" sandstone, greenish. = Waverly
8" brownish fine grained rock full of
phosphatic nodules up to 7" long.
1° Black shale
4" Sandstone.
1° 8" Dark shaly fine grained rock
with Lingula subspatula. Takes the
place of the phosphatic rock at base
of section at Pegram bridge.

Further down the road at a spring & further
Sandstone: Waverly & phosphatic nodules.

- Black Shale
1° 8" Shaly rock.
7° Fine grained sandy rock. This
can hardly be Silurian. It does
not show evidences of layering.
3° 8" clay.
10° 8" clay rock spalling.
B 5° 9" calcareous clay & fossils.
5° 6" limestone, upper part is a shaly lime-
stone.
3° covered
3° limestone.

B = Favosites Forbesi, Pterocrinus light
pentagonal type. The Pterocrinus
is a disc oblique.

- Waverly No 2 and of one Carter Ck.
- 1° Black sandy rocks } = Black shale bed.
 2° 6" dark rock, sandy } = rock below
 1° Waverly } = Black shale
 3° dark rock, sandy } = bed

No fossils or nodules or genuine black shale seen.

34) At the mouth of Mill Creek

- 6" S. ^{Waverly} ~~Waverly~~ like bed, fossiliferous, red = 2 in.
 5° 2" Sandstone - delays below Black Sh.
 at top of Niagara. The corals are
 hemispherical, by the side of Roemer's.
 44° 4" Limestone, much of it soft, I
 could not with certainty identify
 by any of it as variegated. Too
 white and not solid enough at top.

Just below mouth of Mill Creek is
 bluff 75 feet high. Too steep to
 climb except at ends. Not
 visited.

The brown sandstone layer belong-
 ing below the Black shale is exposed
 from 1 mi above the mouth of
 Owl Creek along the valley of Big
 Cassin's Creek as far as the Buf-
 falo River. Up Owl Creek it is fol-
 lowed to a small water
 fall. Silurian section does not

exceed 20 feet along these valleys.
 Only Roemer bed seen.

35) On road N of Buffalo between
 Big Cassin's + Hope Creeks.

Sandy rock belonging below Black Sh.

- 25° Silurian section with
 Astralopora meniscus
 Thecostegites hemisphaerica
 Arthur, with many ventral brach-
 yontula species, var of this.
 Onchyma elegant.
 Streptelasma large borealis.
 Peronopsis gemmiformis large
 Amphyma Stenodonta small.

36) W. of M. Texas, 1/2 mi.

Waverly

1 foot greenish ss with plants of
 phylloporitic nodules.
 about 7 feet of ss belonging below
 the black shale.
 Silurian, Roemer's beds.

37) at Mouth of Little Apurimac, NW of
Flat Woods.

Waverly.

Nodes, (phosphatic) sandstone.

9° 6" Sandy rock takes place of Black
Shale.

Silurian with *Olenia* major at top.

12° below *Olenia* major is a massive con.

9° below top - Coal with flat rock (green)

Total Silurian section exposed
is 48° above Buffalo River.

Waverly

2 ft 2 in chiefly shaly, phosphatic, in upper 4°.

7 ft solid massive ss.

Silurian

No Lower Helderberg.

W. F. Pate, Versailles, stayed with
J. C. Whitaker, lives NW of Flat
Woods on road to Buffalo.

Palaemonetes *ratona* found by
Mr. Whitaker in late fallow,
50 yds from place where road
forks going to Buffalo River.

31 = 8) Ezequiel Cothran. E of house is bluff.
Waverly. 2 mi SW of Trace Creek.

9° Sandstone. Nodule layer at top.

4° Clay rock spalling. See sect. 32.

60 1/2° Limestone rock down to where the
house is covered by waters of the
Buffalo river.

36° Above the Buffalo river there is
a bed that weathers away back.
It is a soft limestone. The vari-
gated bed belongs below this
level I think.

Petrified Tree. Pinhook Hill - Grave
yard. Between Rutherford and Horse
Creek. This place is called Lotts
Post Office. Tree is found in road
beyond the post office going towards
Waterloo.

Petrified Tree. 7 mi. N of Cypress
Spr., on head waters of Weather-
fork Fork of Indian Creek. On
one of the forks. On Jack Mar-
tin's farm. In the hollow below his
house is his field. NE of Whittington
Strand? S. of Victory 5 mi.

- 2 1/2° Sandstone, phosph. nodules on top
 21 ft. White limestone. ^{NW 1/4} Wayneboro
 5 1/2° Covered
 but at top with white mineral layers
 22 1/2° Limestone, West of 7 clayey massive
 16 1/2° Limestone white, well bedded, 54
 10° Covered probably white & soft 38
 12° 6" Limestone white. Well bedded, 28
 But distinctly bedded.
 8° 5" Solid limestone. Rather massive 16
 6° 6" Massive. Solid limestone
 1° Iron stuff, see Clifton section at
 the Clifton land.
 25°-20° unknown. Sand or clay? Doubtful
 7° Leiper Creek bed. - Richmond
 Cement Rock. Artian limestone

41) W.D. Hutton. About 3 1/2 mi. NW
 of Wayneboro on Beech Creek.
 The limestone rock runs off and
 on as far as where Big and
 Little Beech creeks come together.

42) Six miles W. of Wayneboro. About 1
 mi. W. of where Hardin Creek, W.
 Branch Branch, W. of where it starts
 will cross the land & goes up
 hill.

- Wentley
 5 1/2° Dark black shale
 5 1/2° Covered. Iron poor limestone stuff
 11° SS. replacing Black Shale
 ? 20° Clay & limestone with thin layers of iron
 limestone in the middle

6 mi. from Leipers Mill.
 Dr. E.R. Geiser E of house at road corner
 About 200 yds N of Indian Creek.
 8° 6" SS. replacing Black Shale & limestone.
 full of small bryozoans.

W. of house
 with Lingula subsp. later.
 5 1/2° Shaly stuff dark brownish black.
 9° SS replacing Black Shale
 Clay & crumbling thin limestone
 with Astracaspis in pieces, numerous Str. alternata

Free
D *Orthis* *praeurona*, *stellatim* etc.
membrana *vagans*. *Nitida*, *Saffordi*

NE end of Martins Hill (in Tunn)

C Thin *urina* *de* rock.
Rhynd. *Saffordi*, *Meristella*, *Ellyde* *Styph.*
chambersi *planus* in *Meristella*. *Leptocochlia*.
Meristella *Saffordi*, *S. white* like *Meristella*
auris, *Lyptula* *Roemer*. *Rhynd.* *neglecta*
Laurentina

SS replacing Black shale.
(14° *limet* m. *Saffordi*, *Meristella* *Meristella* D
28° { 9° Black shale, *Meristella* *Meristella* BCB
5° Coarse SS, A
57° *Rhynd.* *neglecta* *Roemer*
Base not seen here.

B Fine grained *limet* m.
Strophomena *pulchra*. *Urceolus* *Stroph.*
limet. *Rhynd.* *neglecta* *Meristella*,
Saffordi

45° *limet* m. from *Craven's* Hill.

A Coarse grained *limet* m.
Rhynd. *Saffordi*. *Stroph.*
Stroph. *pelecinus*. *Rhynd.* *Stroph.* *pelecinus*
common. *Stroph.* *Saffordi*? *Callispongia*
elegantula *Dalmanella* *aperta*, with
Stroph. *pelecinus* - *Stroph.* *pelecinus*,
Stroph. *pelecinus* *Stroph.* *pelecinus*
Stroph. *pelecinus* with *Stroph.* *pelecinus*,
Stroph. *pelecinus* *Dalmanella* *aperta*
Stroph. *pelecinus* *Stroph.* *pelecinus*

5° 10' SS. replacing Black shale
fides
32° { 22° coarse. *limet* m. *Stroph.* *pelecinus*
9° 10' massive Coarse SS,
55° *limet* m.
44° *limet* m. *Stroph.* *pelecinus* *Stroph.* *pelecinus*
Stroph. *pelecinus* *Stroph.* *pelecinus*
Stroph. *pelecinus*

47 I was down from 2000 ft in Mill
 60 SS replacing black shale. It is about 60
 40' North of road. It is about 60
 60' of shale. It is about 60
 2 1/2' Crude SS.
 Perimeter

Just above the SS replacing black
 shale is a fossiliferous layer
 in a bed.

48) At about house E of point place
 at first joint mapped, the
 pseudo-limestone crumpled limestone
 & wavy bedded limestone
 form a massive wall. The nodu-
 lar limestone being more massive
 than beneath the pseudo L. It the
 rock recedes. The top of the Perimeter
 bed is also crumpled and
 in places makes a vertical cliff
 with the wavy pseudo L. &c.

Views recorded, 1. 2. 3.
 At J. Herwin. Whiskey. S. W. corner.
 Silley's Mill, on Horse Creek.
 Hardin Co.
 Head of people at that of hard
 Perimeter. Height of people 1. 2. 3.
 = recess between Perimeter & pseudo
 L. It. Massive = pseudo L. It.

The limestone is bedded in the
 wavy bedded clay weathered but covered
 by no other by View 4, W.D. Mc Anally
 by Mc Anally. Clifton.

Clifton Landing.

- { 6° Clay shale to base of Clinton
 9½° Shaly beds. clay, Upper 8 in. harder.
 then bedded sandstone
 exposed. Stroph. like fossils and conch.
 + coarse ls. that follows with Rhynch.
 6° More clay limestone. Some fairly hard
 { 3° 6" to top of coarsest limestone.
 9° 6" to lowest Strophomena bed? ^{the}
 3° 4" Warren bed. ^{See} Photo 1, 2, George
 Pitts. Clifton Tenn. colored.

at the lowest point Rhynchonella
 corals were found at very base of
 Richmond coarse limestone, above
 about 4-6 inches of Warren bed. This bed
 thin out upstream = W.

There is a conformity between Warren
 bed + Trenton. The Warren rests on
 rock 2 feet lower in the scale at
 E end of landing than at W. end.

122 mi.	Johnsonville	10.49	Oliver.
	Newsom	12.49	2.04
	Newsom	2.53	
	Johnsonville	4.48	5.21
	Union City	7.52	
	Union City	1.13	
	Carroll	3.00	
	Trenton	3.42	
	Trenton		
	Thelco		Thelco.

Clifton sh. 15 1/2 ft. 34 1/2 ft.
 c.l. 12 ft. 34 1/2 ft.
 3 1/2 ft. 34 1/2 ft.
 33 1/2 ft. + 34 1/2 ft.
 c.l. 7 ft.

Barren to Clifton

Barren to Clifton

Barren to Clifton

Quarries of Variegated rock on Big Sandy
 in southern part of Henry Co.
 on Birdsing Creek in Benton Co.
 on Duck River in Hickman Co.
 on Cane Creek.

841. White Sulphur Springs. Establishment on Held.
 Masses of chert with fossils abundant on surface.
 Section opposite Springs = Hill above bluff
 4) capped by sand + gravel = ferrug. conglomer.
 3) Siliceous Gr. 75 ft.
 2) Black Sh. represented by SS. with slaty seams 3 ft.
 1) Bluish l. abounding in cherty nodules
 and layers. All fossiliferous, with thick
 bedded layers at top and base. 63 ft.
 About a mile from the Springs on the
 opposite side of the river is a bluff, 2 or
 more miles in length, at the base of which
 the Helderberg rocks are exposed. It may
 be that the section above described is on this
 bluff, opposite the Springs.

844. C) Near A.B. Gant. List of fossils.

845. Section A.B. Gant to Cravens Mills.

Gant bed described as Helderberg Limestone.

* 846. 2 1/2 mi. W. of Gant, 10 feet below Black
 shale is bed 25 ft thick well filled
 with Niagara corals.

847. S) Col Smith, 9 miles from Savannah
 on Waynesboro road. Fossils from
 bed about 20 feet thick. (at Economy?)

848. D) Bath Springs, Fossil bed 20 ft. Held.?
 Ledge of hard l. 3 ft. thick.
 Shaly limestone 18 ft. Merizans,
 variegated l. at bottom of hill.

White Sulphur Spgs hotel 1 mi. fr. landing.
 at Pickwick.

Mr. Martin, 1/2 mi. beyond Bath Spgs. at
 5 mi. just turn to left.

Col. Smith.
847 *Amisophyllum Agassiz*

Nucleospira concentrica

Rhynchospira formosa

Bath Spgs.
848 *Amisoph. Agassiz*
Apicocystites Anna.
Spirifer Saffordi.
Nucleosp. concentrica
Rhynchospira globosa
Rhynchospira formosa

817. Nearly 4 miles from river at Clifton
caps ridge overlooking Eagle Creek.
Siliceous group mostly concealed, 53 ft.
Black shale (= Waverly here) 50 ft.
(34 ft thick shale, 8 ft fine grained ss with
Singula subspatulata, 8 ft massive ss)
Lower Helderberg 25 ft. gray crinoid l.
fossils obscure at this point.
Meniscus l. sponge bearing bed 90 ft
lightly fossiliferous. (Where measured.
Was this measured on Eagle creek?
Variegated bed (includes as good +
Clinton) 96 feet.

Meniscus sponge bed probably measured
4 mi. E of Clifton, and Varieg. at Clifton.

835.

Lower Held. in valleys of Indian and Hardins
creeks is generally wanting, locally in thin beds.

Low. Held. absent in upper part of valley of
Buffalo but on map begins at
Flat Woods and goes down to Linden.

Below hill at Linden.

Black Shale

Linden. Lower Helderberg, loaded
with fossils.

842 On Buffalo River in Perry county, F. Fossils.
835 3 miles below Beardstown on Buffa-
lo, Black Shale. Bill Edwards.
Lower Helderberg 30 ft. loaded with fossils.
Meniscus bed.

Two miles above mouth of Buffalo.
by a local swell, it is exposed in a
bluff. Lower Held. 50 ft.

Nearest place is Bakerville. Nearest land-
ing is Cuba. Good stopping place.

2 1/2 miles, not far from Dudley's Ferry. Dr. Williams.

Mapped from edge of Hickman to
Montgomery's mill on Duck river,
but not in Humphreys on Duck
river. However it states in text;—
Lower Held. along valley of Duck river
scarcely reaches Hickman Co.

Decatur Co.

831 In the southern part of Benton, well
developed at a number of points. L. H. H.

840. Tributary of Birdsong. in southern part of Benton
Co.

836. Low. Held. Commencing at mouth of
Big Sandy and extending up valley 5 or 6 mi.

839. Williams Mill, about 5 mi. above
mouth. Orange sand + gravel.

Lower angular cherty masses, fossils.
few layers gray limestone.
Bluish shaly limestone. 50 feet.

Quarry, Taylor's Quarry.

About 1/2 mile east of Iron City,
on the north side of the Railroad to
Columbia.

3 inches thin
Thin yellowish shale with large brown
spots - 1/2 inch to 1 inch thick.

Phosphatic nodules
10 inches greenish shale like Waverly base
at Mt. Pleasant.

6 in greenish shale Chatterbox
black shale.

15 in. layer of greenish fine grained rock
equivalent of Harding sandstone.

6 in. shaly rock, passing to deep brown
also containing thin bedded sandstone.
Thin uniform thin bedded, seen at
quarry. Silurian.

Rock massive in the 13-18 inch
the thin bedded at top of layer.
Rock contained 3-4 species of
Pizoceras gen. affinis and
large trilobites.

At first crossing of railroad
road, about 1/2 mile
east of Iron City, the 20 inch
thin bedded of the 13-18 inch
is 25 feet.

At top of 25 feet of 13-18 inch
thin bedded of the 13-18 inch
1-3 inches Rest of 13-18 inch
thin bedded of the 13-18 inch
in thin shaly rock.

Quarry, 1 mile N of Iron City, on west
side of P.R. to Columbia.

15 inch layer of greenish fine grained
rock

6 inch, brown, shaly rock, no thin bedded.
Thin bedded of the 13-18 inch
is 25 feet.

Top of 13-18 inch
Rock massive with greenish brown
phosphatic large nodules (1) in
any ground.

Rock in beds 13-18 in this thickness.

At the crossing layer of 13-18 inch
Chatterbox shale, 6 inches.

25 feet of 13-18 inch

16 in brown bedded - Harding 2-3 Waverly 1
9 in brown shaly, shaly rock 1 in shaly.

17 ft. This is the nearly level of the
1 1/2 ft. shaly shale }
5 inches brown } Waverly
1 ft. shaly }
23 ft. in which I saw no layers, white
except within 5 feet of base where it
is of the rock.

3 ft. Argillaceous shaly brown thin soft
3" 1/2 inch shaly shale.
2 1/2 ft 8 inch argillaceous, porous, mottled.
at bottom of Waverly.

Co. 700 ft. at edge of rock
3 in. to 12 in. Clinton. Last 100 ft. in zone
2 ft 6 in. ferruginous sandstone.
6 in. } hard brownish limestone.
7 in. } limestone.

Soft blue shale, containing
fossils. In clay area at 10 ft. from
cliff down to 1 ft. level as the limestone.
Clinton. 100 ft. to 150 ft. from cliff.
100 ft. 3 in. diameter.

Pentamerella, as at Providence.
Diploma artium as at Clinton.
Large orthid shell as at Clinton?
Illinois. 100 ft. from cliff.
3 ft. 6 in. clay shale.

Clinton. 100 ft. from cliff. 100 ft. from cliff.
100 ft. from cliff. 100 ft. from cliff.
100 ft. from cliff. 100 ft. from cliff.

Let down of cliff south of 100 ft. to 100 ft. along
the road.

Top of large, limestone, containing
shell in the center. 100 ft. from cliff.
Top of large, limestone, containing
shell in the center. 100 ft. from cliff.

Waldron

Hyalithes like Newson.
Rhynchonella and other species
not yet identified. Interesting
crinoids.

Top of Waldron. Well bedded limestone.
100 ft. from cliff. 100 ft. from cliff.
Rhynchonella, as at Providence.
100 ft. from cliff. 100 ft. from cliff.
100 ft. from cliff. 100 ft. from cliff.

Waldron clay.

Rhynchonella, as at Providence.
100 ft. from cliff. 100 ft. from cliff.
100 ft. from cliff. 100 ft. from cliff.

100 ft. from cliff. 100 ft. from cliff.

Waldron bed?

100 ft. from cliff. 100 ft. from cliff.
Rhynchonella, as at Providence.
100 ft. from cliff. 100 ft. from cliff.
100 ft. from cliff. 100 ft. from cliff.
100 ft. from cliff. 100 ft. from cliff.
100 ft. from cliff. 100 ft. from cliff.

Waldron bed as at 100 ft. from cliff.

100 ft. from cliff. 100 ft. from cliff.
Rhynchonella, as at Providence.
100 ft. from cliff. 100 ft. from cliff.
100 ft. from cliff. 100 ft. from cliff.

Friday P.M. 10 Train at Dayton.

Saturday in Iron City to Taylor's quarry.

Sunday 12 Iron City To Cedar Point.

Monday, 13 Iron. It. depot exp. to Waterloo.

Tuesday 14 Waterloo, Brush & Bluff Cr. to Liverton.

Wednesday 15th Oct. 1890. E. day.

Thursday 16

Friday: Pyburn Top LH, Calybeate Spgs.

Saturday 18, Savannah, Col. Smith.

Sunday. 19

2nd Monday 20. General Bath - Arrived Bluff

Tuesday 25, June 1944

Thursday 22 Sept. 1890. ~~Friday~~ 23 Sept.

Friday, 21 Nov 58, Kelley, Baker^{Trucks}

Saturday, 25 (Baker's)

Sunday 26 Bakerville, Cuba, Steamer

3 Monday, 27, Danville

Thursday 28 In bed from 4-8 AM 7. 3084
3085

Wednesday 29 Oct. Arrived at the ...

Byburn Hall opposite Pickwick

1. Bluff neck.

a. Under-employment

to Johnson's branch.

2, 11/11/11

3. *Pyralis hyalipennis*

1. At west northern end of bluff, next to
Bluff creek. At base of section =

A-11 ft. surface to top of 1st set of hard rock,
Very fine grained limestone with much
chert. Good preservation of Cammarodina
at top. Cammarodina at all
levels. Collected.

2) In 1 sandy slightly calc. = 4 in. at bottom board

Q. In Sept. 1921, he & family, including wife,

Large Dolomitic layer 4' thick, near top
from base of the ^{1st} ~~strat.~~ ^{bedded} throughout this section.
It's 1st below top is ^{1st} ~~strat.~~ ^{bedded} with plenty of

John Henry Johnson 7 miles east
of Savannah. Remains here
for only a few days with the same
plant of fruit. See no.

Col. John Smith, 1 mile E of Savannah
made. It is in front of house. Between
house & road & a small stream. Barren
with red. Some stone creek S.
of road. 1/2 mile upstream from
main road. Limestone above
the clay. Mostly sand & gravel. No
black shale. Mainly left
along road as far as
road to cut across. Fossils
seen. See notes on fossils.
See - Col. Smith's place.

Hagler Mill is on Buffalo river,
Bluff on east side, about 75 ft high,
cross river at the mill. - fold. About
a mile and a half below Baker ville,
about 5 miles from Baker ville to
mouth of Buffalo.

Ledbetter Landing, 8 miles
from Holladay.

Mr. Rice at Ledbetter has a store.
J. C. Wagner coming in all the time
here from Holladay. Can stay
over night with Mr. Rice.
Can stay with Mr. F. Harrison
at Holladay good place.

W. F. Kuebler, 1129 - 5th St N
go in car depart ment. Meet his
brother Luther Kuebler.

Oliver Hill, at Frank Robinson on
1 mile west of Oliver Hill, near Pine
Grove Church, down hill E in
branch.

Grave yard Holladay, 1/2 mile E of
Baker ville. M.D.
E. C. Morris Savannah.

Fossils

Bar of Comacina section at
Ledyard Springs

Aluminella subaenaria
Aluminella 2 or 3 species
Lophospira alutacea
Spirifer the primitive form
Spirifer - *S. thyrus*
Brachyopoda
Favosites

Fossils

Col. John Smith, 7 mi. E of Savannah.

- Diaplocystina virginiana.
- Diclyonella
- Meristina maria rogersi
- Merista tenuisecta common
- Trematospira
- Homocospira schucherti
- Homocospira 40
- Nucleospira concentrica
- Spirifer campbelli?
- Atypa reticulata newmansi.
- Ureclonius Stricklandi, smaller than typical.
- Ureclonius tennesseensis,
- Melania affinis
- Camarotoechia like neglecta
- Camarotoechia acuminata?
- Syringula rogersi
- Callisthete subplanus
- Dalmanella elegantula small.
- Rhipidomella
- Callispira elegantula.

E. of Savannah, 8 mi. E of Savannah.

- Cyath. phylloides radiata
- Ureclonius shumardii.
- Favosites
- Plasmopora folia
- Thecia, Astylomania verrucosum.

E. of George Wilcox, 7 1/2 mi. E of Savannah.

(34)

- Homocospira?
- Anoplodonta?
- Nucleospira concentrica
- Nucleospira foliiformis?
- Merista tennesseensis
- Atypa reticulata newmansi.
- Melania affinis
- Syringula rogersi
- Syringula prolongata?
- Strophomenella subplanus
- Gastropoda subquadrata
- Dalmanella elegantula. Typical "small"
- Rhipidomella
- Rhipidomella affinis
- Strophomena foliiformis.
- Astylomania verrucosum.

In front of John Henry Johnson, 7 mi. E of Savannah.

(35)

- Trematospira? very small
- Spirifer affinis?
- Camarotoechia like neglecta
- Rhipidomella
- Plasmopora folia

Steamboat

Pluto 2. Coffee sand, just below
Coffee Landing. Term, Bedding
well exposed. Bluff, Bluff about
1/2 mi long.

Black bluff begins at Craters and
extends down the river. 10-15 feet of
Bentonite bed on 15-20 feet of
Dixon bed. Dip up the river.

At Crater & Vids. 3 also landing
with heavy bedded limestone below.
Above this is Dixon bed - more clayey
streaked with red, 12-15 ft.
Above is Bentonite bed, massive
below for 5 ft. then bedded & white
clayey above, 20 ft. Dipping
down the river.

A short distance down the river the
dip is up the river. Apparently
stratified limestone.

Further down river the Dixon bed
again bedded is nearly level the dip
slightly down river. It is bedded
& white and alternating. ~~20 ft~~ 20 ft?
Overlain by 32-40 ft of Bentonite
bed dip continues down stream.
Overlain by clayey limestone. Look
up to see if heavy bedded. May be
that the dip is down river. May be
that the limestone is clayey and
bedded. It is clayey and bedded.

Steamboat

Bluff begins about 1/2 mi above Sallie's
House. Layers 8 ft. over 5 ft more
clayey with little red. over 10 feet
dip up the river. All - & Bentonite bed.

1/2 mi. below Sallie's, Bentonite bed,
at first level then dipping down stream
overlain by Dixon bed dipping
strongly down stream. This Dixon
bed is thicker than bedded. A considerable
part consists of a perfect solid
white limestone. It is bedded with some
clayey red bedded streaks. At Pleasant
Bluff it is Pleasant but 1/2 mi. rock dip up
stream 20 ft. Bentonite. Overlain by
base of Dixon bed. Then dip down
Black rock. Is there a dyke at E. over
ment logit, just at Lee Kelley Land-
ing.

At Kelley Landing & below
a great thickness of Bentonite
rock dipping up stream. Resting
on Sallie's limestone. It is not
worthwhile exposure. 10-15 feet of Sallie's
limestone exposed.

Just above Swallow Bluff the rock
dips down stream, the Bentonite
resting on the Sallie's limestone.
The Bentonite is massive. ~~down~~
The massive bedded Bentonite 30 ft.
is overlain by heavy bedded 15 ft.

W. N. D. Lawrence. Apr. 5. 1884. M.
From Bath Springs up to 900 ft at
base of road. 37 ft.
18 feet of sandy red clay (mostly
of 5 ft) - some of which is
limestone layers above level of strata.
18½ feet or 47 ft. more at my road.
(= total of 74½ ft. up to certain
Barnesford bed.)

c 2 feet of Bannockburn (approx. 110' x 10' x 10')

Hard limestone 5 1/2 ft thick
(Dip 116 ft)

A 17 feet to top of shale in lower part of formation
(= total of 135 ft. 21 ft to top of shale = 156)

D 7 1/2 ft Hand Level Run

c 22 feet by 11 by 7 feet white box
= hold delivery, 5 apr 1961

B 4 1/2 hard kn. 7 me = 22 fms. 1/2

A 17 ft. Maximilian near base Conglomerate
+ 12 ft. } near top collected.

Fossils

Port Springs Layer A

Caryoceras *variosus*

Cup shaped, orange, interior

verrucosum

Stellatium - subrotundum

Agonospira *subrotunda*

Chonetes *hemisphaerica*

Strophomena *latella*

Paucicamerata, typical

Strophomena *major* *sub* 3

Waldron bed

Henry's Bay's Mill

Clinton Co

Near City

Iron City, Clinton Co, N.Y. Arg. and nearly gone. \uparrow up 29°

Riverside, Clinton Co, N.Y. Arg. and nearly gone. \uparrow up 46°

Swallow Bluff, Clinton Co, N.Y. Arg. and nearly gone. \uparrow up 53°

Clinton

Glenville

3 ft

3 ft 3 in W = 2 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

3 ft 3 in

New Era

at top of ...

41 ft ...

2 ft ...

37 ft ...

10 ft ...

22 ft ...

31 ft ...

27 ft ...

3 ft ...

6 ft ...

20 ft ...

12 ft ...

2 ft ...

...

...

...

...

...

SE of Kelley's Landing, on north side of creek N of Bee Creek. red clayey argill. thin asat chert in white coarse 17 ft. Richmond

Fine exposure below Mt. Pleasant. Great vertical cliff is Brownport.

Parker's Landing, Below Landing is reddish limestone.

Take left hand at Blacksmith shop, go 2 miles to spring on R hand side, near a school house among trees, cross creek, go along a lane, fence on right, cut across main road about 200 yds from school house.

Turn to right, go on half a mile road forks, turn left here. About 3 miles to Baber'sville.

Big Sandy.

On east side of Tennessee opposite mouth of Big Sandy is Standing Rock creek. At forks of creek 5 mi. from Tennessee river is exposure. From there on both sides of both creeks are fossils. Black shale.

2 ft Black shale
5 ft reddish subcrystalline shale
4 ft Black shale
5 ft coarse sandy
3 ft Coniferous?

10 feet?

43 ft top of cherty limestone to base of same at river edge. Camden chert.

Clinton Burcham, about 4 mi. N. of Baber'sville, on road to Waverly.

Enter gate and turn east along edge of hill to Henry McChes's house.

Exposure of Coniferous is at beginning of bluff beyond the house, on west face of hill, at west end of bluff. The Camden chert along river face of bluff. The Coniferous seems to occur only at western end = beginning of bluff, from Buffalo river level to 50 ft above at highest elevation.

The Bluff is at the Wharf on the Buffalo river.

Robert
Steele

12th Brixton

40

310

HOW

22-0 Cont'd

128

Wm. L. G. 1845

15

10

25

11-511

212

125

155

27

5301

2019

Bledsoe

Barman

Centerville, McIntosh Co.,
Tky.

Riverside

(Bakerville, Or.)

Marion, Oregon

Clifton, Colorado

Sheldon Bluff, Wash. 568.

Pylon Bluff

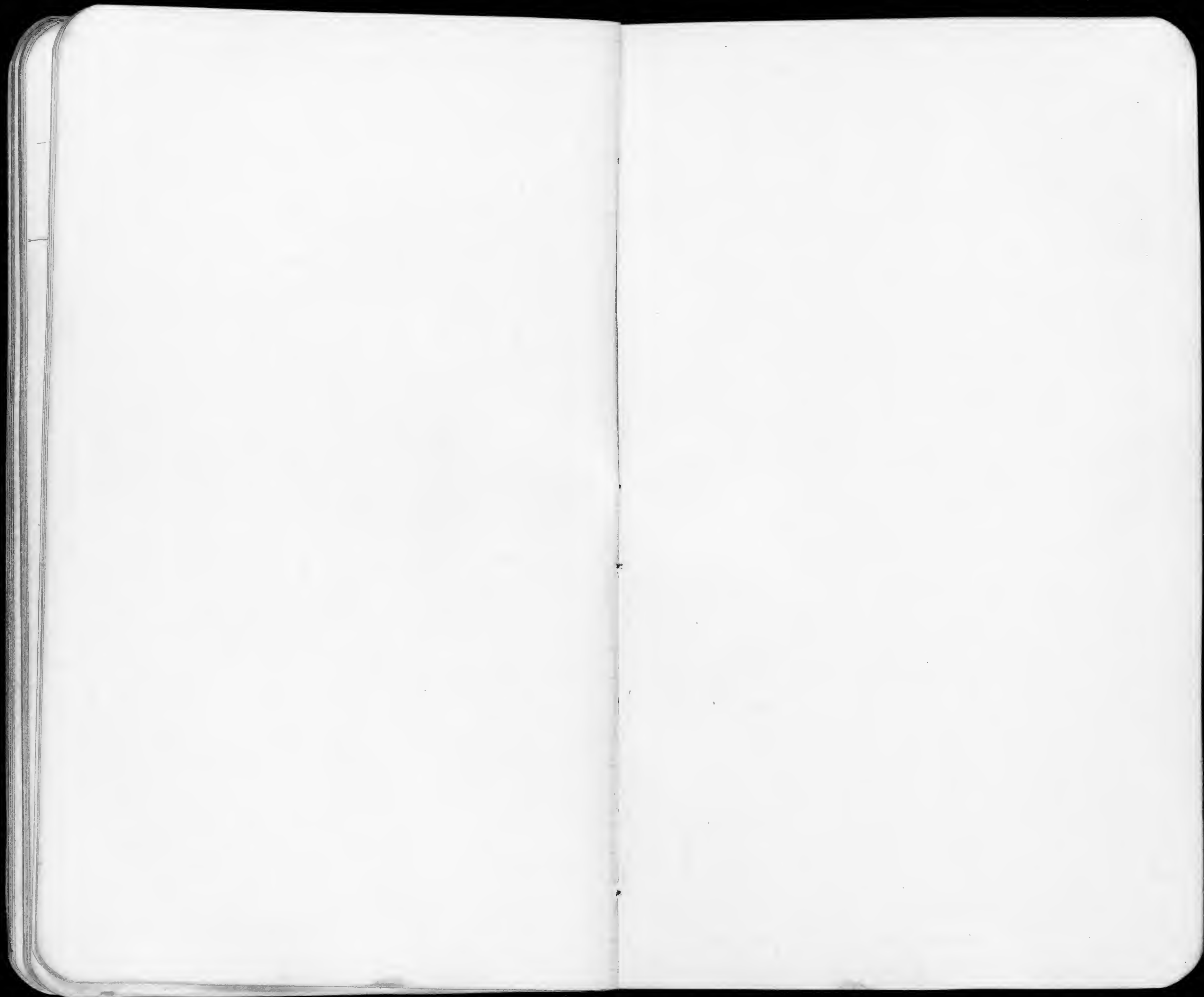
Adair Bluff, Tenn. City.

File 37 1/2
14 1/2
Lg. 32 3 1/2

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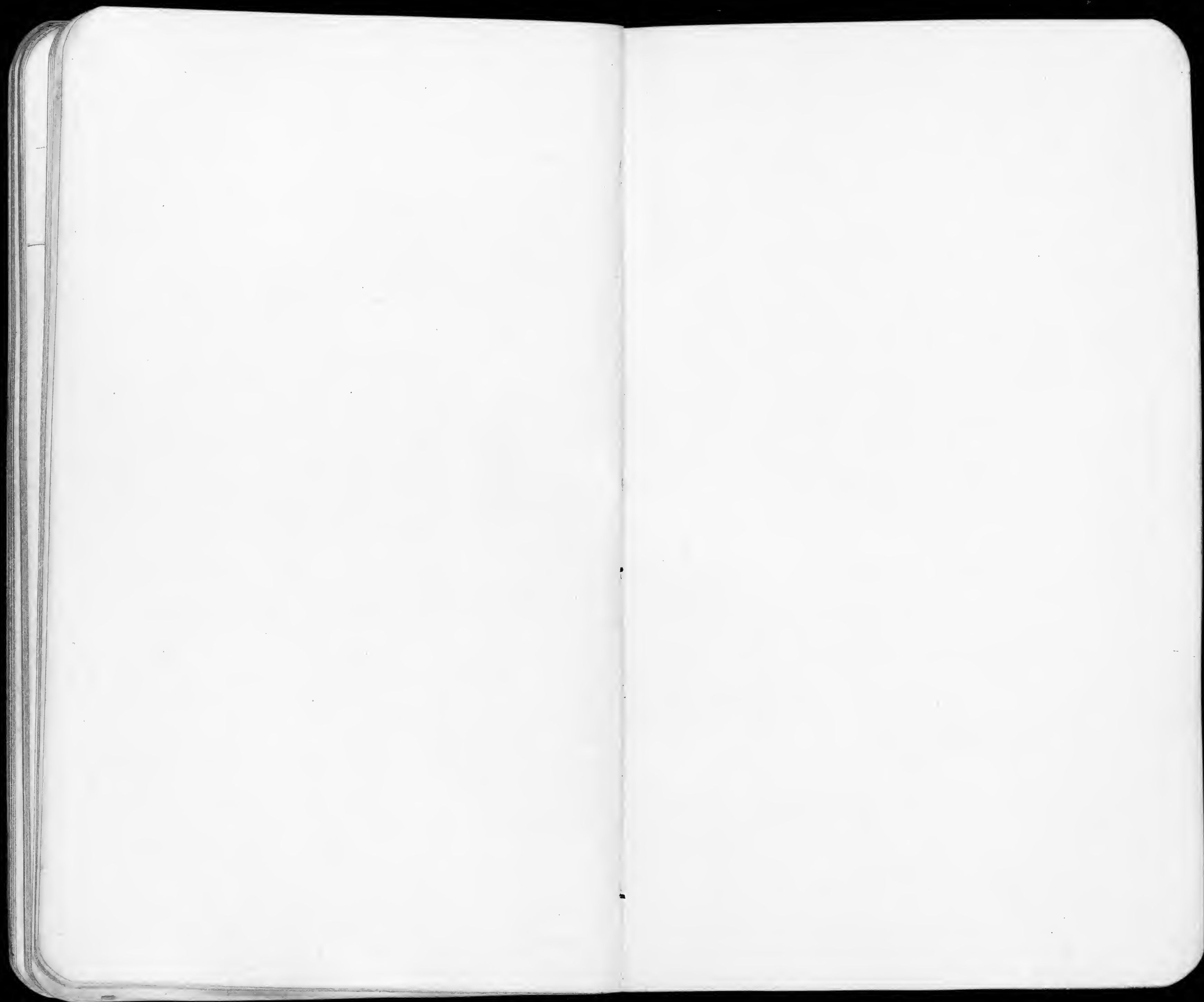
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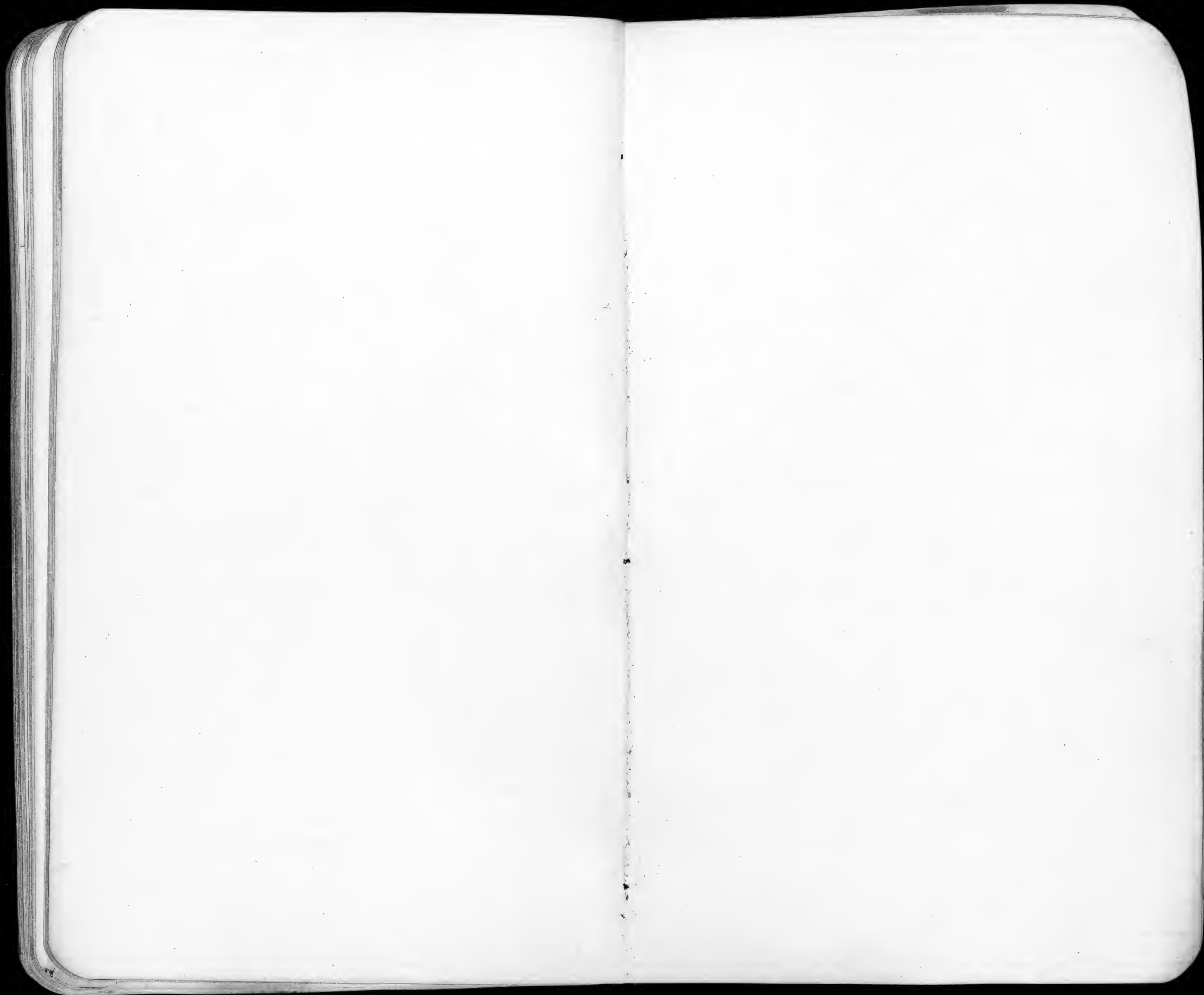












S 12 W 55

S 15 W 215 Whistle N 75 W to end of line

S 15 W 160 Beginning of River drainage

S 15 W 72 (M 577 L 200 B.C. 80 -

S 15-W 40 End of River dr. line

line is N 40 W.

N 60 E 80
N 40 E 50
N 20 W 400 G. out house on left.
N 170 Lane house on left
Lane = N 60 E 50
N 20 E 120
N 60 E 100 N. out house on right
N 60 E 200
N 100 E 80 Home to N
W 50 Lane continues
west to hill 300, hill front
runs N 45 S following valley.
Field Lane, S 20 E 70 Stable R
S 80 end of stables,
E 250 corner of exp. hill
N 75 E 150
N 60 E 80
N 40 E 95
N 60 E 65
S 70 E 50
E 100 Bridge 11, Pres. d. hill
S 85 E 160 N. out house on left
N 80 E 66 river.
River runs N 40 E 220 South on left
N 80 E 100
N 50 E 145 end of river bluff.
(regular road crosses river to NW)
N 40 E 40 to regular road
Regular road
N 40 E 75 school on left.

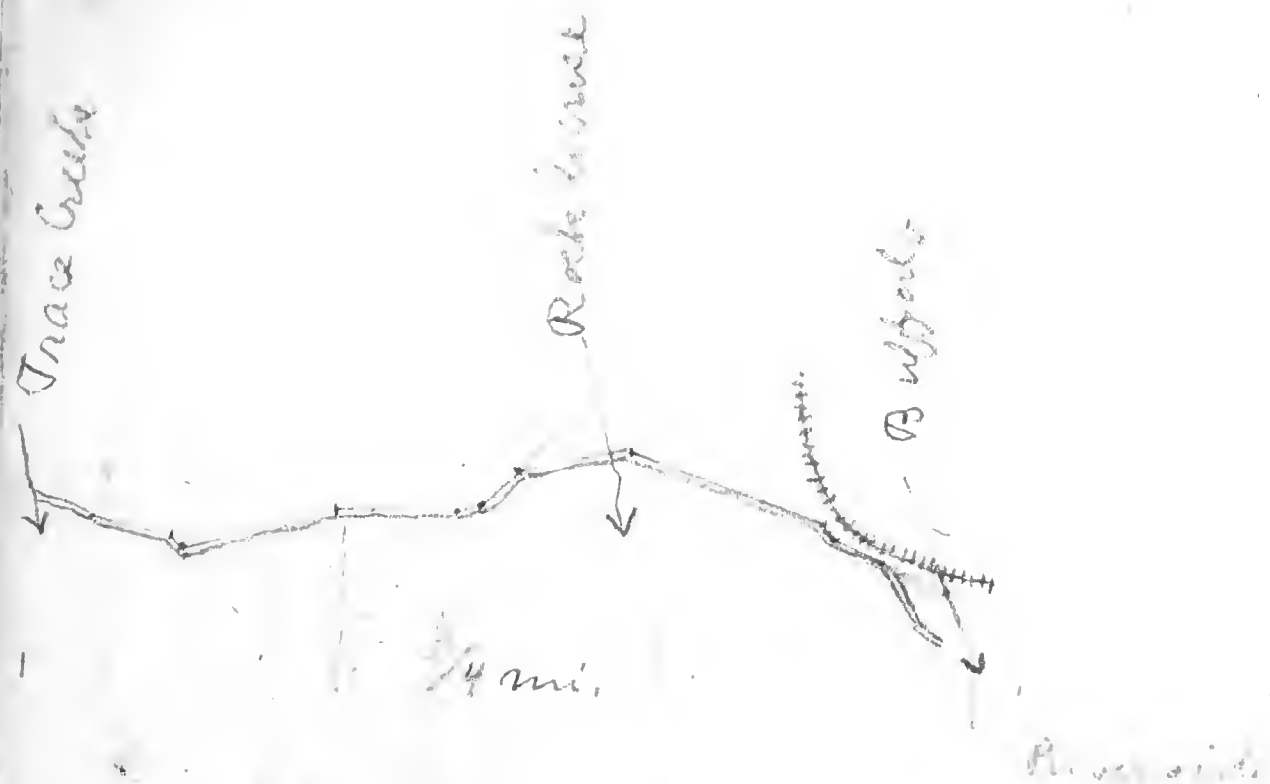
3) S 45 W 55
N 60 E 150
S 85 E 180 Church N = B
hardly 2 1/2 miles
N 75 E 120
E 212 Road goes up stream
to bluff where road turns off
(N 45 E 55 - to river.)
S 40 E 244 to top of hill
N 60 E 100 to T

G. out house G. out
N 30 W 80
N 30 E 216
N 40 E 140
N 65 E 190
S 80 E 125
N 55 E 15 N. out
N 55 E 25 across N. out
N 55 E 20
N 60 E 70
N 70 E 330
N 25 E 140
N 80 E 40 G. out house on left
N 60 E 175
N 80 E 500 to U. out house, wood.
80 to corner of fence
F. U. out house on left, N 20 W 58
N 10 E 55

N 50 W 450 Along River, left road
 N 55 W 1150 Corner house to W,
 N 5 E 180 to bluff, No. 1000 in
 exact side
 N 35 W 235 (Trench) Phillips
 (a mine in at 1900)
 3 mi to bluff (hill)
 S 10 W 400 river, water field 770
 W 1000 300
 S 40 W 420 to Bluff road R
 N 10 W 225 Phillips house

4 mi R. Phillips
 S 10 E 70 Savannah
 ridge road starts off N 50 W,
 S 10 E 25
 S 60 E 200 Stream road N 60 E
 S 60 E 30
 S 50 E 270
 S 50 E 260
 S 20 E 200
 S 10 E 120 House S 70 W
 S 15 E 100 Stream N 10 E
 S 75 E 200
 S 75 E 240
 S 5 W 100
 3 mi S 50 E 130 House S 30 W
 S 50 E 160
 S 40 E 160 House S,
 Gate
 E 75

1) N 10 W 565 Broad Main station
 N 60
 N 10 W 520
 N 20
 N 15 E 115 Gate house station
 S 40 W (40-80 River) 220
 S 25 W 312
 W 44 Road to bluff
 S 25 W 300
 x Bluff with much iron - S
 N 30 W 800 Bluff top right
 N 70 W (125 to bluff) 450
 N 40 W 60 Road off to right
 N 55 W 100
 N 45 W 150
 N 70 W 140 Hill on right
 S 25 W 180 SS on left, 1st hill
 (plate 4 in map)
 (48) = 14 to 15
 S 20 W 260 Bluff on right corner SS.
 Varying 2nd bed layers
 S 65 W 265 Road from off N 55 W
 hill
 N 55 W 100 Major but on right
 N 10 W 160 Minor but on left
 minor hill T
 N 50 W 80
 N 45 W 500 Island on left
 house on left Church B
 N 45 W 175 Road off S 10 E to
 hill house A



S 70 E.	15 + 65 =	150	27
S 45 E		170	4
		38	
11 70 E	258 + 54 =	332	
E	115 + 100 =	242	25
		67	
11 60 E		100	
N 45 E		240	176
N 80 E		436	1 RR
S 70 E	11	40	
S 40 E		100	1000 ft. S
S 60 E		150	1000 ft. S

35 1/2° section 22 mi. W. of Trace Creek

25
60 1/2
278
35

S 70 E
100
176

Trace Creek



- 1.
- 1.
- 1.
- 1.

Field in place
 cross bridge



